



Forage Preservatives



The inoculant that makes the difference

biostart FORAGE PRESERVATIVES

BioStart is a New Zealand bio-technology company specialising in microbial activators and fermentation extracts. The BioStart range of silage inoculants and hay preservatives contain a concentrated blend of non-viable (not live) fermentation extracts including enzymes, bacteriocins and secondary metabolites which clear a pathway for ensiling bacteria. Signal molecules then stimulate the naturally occurring lactic acid producing bacteria to rapidly ensile the grass or crop.

WHY USE INOCULANTS ON YOUR SILAGE?

The quick answer is to stop fungi growing on your silage so it stays fresher for longer. Grass is covered in a naturally occurring film of microbes that begins the decay process as soon as it is cut. An inoculant should be used to prevent this natural process from reducing the feed quality.

WHY DO BIOSTART SILAGE INOCULANTS PRODUCE BETTER SILAGE?

- All other inoculants rely on live bacteria, our inoculants don't.
- Our inoculants boost lactic acid producing bacteria which naturally occur on the grass or crop with Signal Molecule Technology.

Farmers and contractors report:

- A faster ferment which results in sweeter, more palatable silage
- When stacks are opened there is no re-ignition or secondary ferment
- The silage will stay colder and last longer once opened

"We recommend SilageKing to all our customers especially with the high moisture content in spring. Customers are rapt with the quality of our SilageKing bales and say their cows find it more palatable."

Kay Contracting, Morrinsville

MADE IN NEW ZEALAND

SILAGE KING

The key to making quality grass and cereal silage is an efficient and complete ferment. The fermentation extracts in Silage King ensure a rapid rise in beneficial acetic acid producing bacteria and the suppression of undesirable microbes. The end result is a sweeter smelling silage that lasts longer.

- Promotes quick efficient fermentation
- Reduces losses in DM and quality
- Increases palatability
- Increases harvest/baling window
- Face remains cool after opening
- Easy to apply

APPLICATION RATE

Silage King Liquid 20lt:

Standard round bales	90ml/bale
Pit Silage	150ml/wet ton

Silage King Granules 20kg:

Standard round bales	100gm/bale
Pit Silage	170gm/wet ton

20 LTRS OF SILAGE KING

**Inoculates:
222 standard round bales**

grass, lucerne and whole crop silage



HAY KING

Getting just the right conditions for hay making can be a tricky proposition. Too damp at baling and substantial losses in quality caused by mould growth and the subsequent heat build up.

Hay King uses a combination of fermentation extracts that inhibit microbial activity on baled hay. Hay King increases the window of opportunity for making quality hay bales.

- Inhibits mould forming on baled hay
- Reduces losses in dry matter & quality
- Increases palatability
- Increases baling window
- Easy to apply

APPLICATION RATE (per tonne of hay)

Moisture Content	18%	21%	24%
Hay King Liquid 20lt:			
Per tonne (1000kg) rate	300mLs	470mLs	670mLs
Application Large Bale at 600kg	180mLs	280mLs	400mLs
Standard Bale 300kg	90mLs	140mLs	200mLs
Conventional Bale up to 35kg	15mLs	20mLs	25mLs
Hay King Granules 20kg:			
Application Large Bale at 600kg	200gms	330gms	440gms

20 LTRS OF HAY KING

Preserves:

67 tonnes of hay

(at 18% moisture content)

grass & lucerne hay and stubble bales



MAIZE KING

MAIZE KING has been specifically formulated to address the high starch content of maize silage. The fermentation extracts in Maize King ensure an efficient and complete ferment of the crop. As a result stacks ferment quicker and hold their quality for longer. When uncovered, faces remain cool and don't re-ignite into secondary ferment.

- Ensures efficient and complete ferment
- Reduces losses in dry matter and quality
- Increases palatability
- Increases harvest window
- Face remains cool after opening

APPLICATION RATE

Maize King Liquid 20lt:	
Pit Silage	115ml/wet ton
Maize King Granules 20kg:	
Pit Silage	130gm/wet ton

20 LTRS OF MAIZE KING

Inoculates:

174 wet tonnes pit silage

recommended for maize silage



APPLICATION MADE EASY:

BioStart have a range of liquid and granule applicators available with and without in-cab controllers. Custom units are available on request.



NEW FA6125T 120 ltr Applicator with in-cab controller



Narrowdale Granule Applicator with electronic in-cab controller (also available manual flow rate adjustment (20 or 40kgs sizes))



Ascot FA 630 20ltr Applicator



Ascot Liquid Dose Regulator

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MADE IN NEW ZEALAND